

INTERNATIONAL SEARCH REPORT

International application No
PCT/RU2006/000219

A. CLASSIFICATION OF SUBJECT MATTER
INV. H03M13/11 G11C15/00 G06F17/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
H03M G11C G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2005/096509 A (INTEL CORP [US]; BELOGOLOVYI ANDREY V [RU]; KROUK EVGUENII A [RU]; TRI) 13 October 2005 (2005-10-13) page 8, line 17 - page 9, line 6 abstract	1-4, 10-15, 21-25
Y	PARHAMI B.: "Extreme-value search and general selection algorithms for fully parallel associative memories" COMPUTER JOURNAL, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 39, no. 3, 1996, pages 241-250, XP000627486 ISSN: 0010-4620 page 241, left-hand column - page 243, left-hand column page 248, left-hand column, paragraph 1 ----- -/--	1-4, 10-15, 21-25

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

12 February 2007

Date of mailing of the international search report

18/06/2007

Name and mailing address of the ISA/

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 643 653 A (LUCENT TECHNOLOGIES INC [US]) 5 April 2006 (2006-04-05) page 4, paragraph 18 - page 5, paragraph 25 -----	1-15, 21-25
A	US 2005/210366 A1 (MAEHATA TAKASHI [JP]) 22 September 2005 (2005-09-22) abstract paragraph [0090] - paragraph [0132]; figures 9-17 -----	1-15, 21-25
A	US 2004/153959 A1 (KIM KI-HYUN [KR] ET AL) 5 August 2004 (2004-08-05) page 3, paragraph 32 - paragraph 39 page 4, paragraph 49 page 5, paragraph 73 page 6, paragraph 91 -----	1-15, 21-25
A	US 2003/104788 A1 (KIM SUNGWOOK [US]) 5 June 2003 (2003-06-05) figures 10,11,14B,a5B paragraph [0084] - paragraph [0101] -----	1-15, 21-25
A	HANLON A G: "Content-addressable and associative memory systems, a survey" IEEE TRANSACTIONS ON ELECTRONIC COMPUTERS USA, vol. EC-15, no. 4, August 1966 (1966-08), pages 509-521, XP002419285 the whole document -----	1-15, 21-25

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

see annex

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-15,21-25

Independent claim 1 specifies an iterative decoder wherein a bit reliability is updated based on a comparison with a multi-valued adaptive threshold. Independent claim 21 specifies a transmitter, a network interface and a receiver comprising a decoder as specified in claim 1.

2. claims: 16-20

Independent claim 16 specifies a method comprising the method step of determining a first minimum and a second minimum of bit reliabilities stored in processing elements during a first iteration.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 2005096509	A	13-10-2005	US 2007011586 A1	11-01-2007
EP 1643653	A	05-04-2006	NONE	
US 2005210366	A1	22-09-2005	CA 2499177 A1	22-09-2005
			CN 1674446 A	28-09-2005
			JP 3891186 B2	14-03-2007
			JP 2005269535 A	29-09-2005
			KR 20060044395 A	16-05-2006
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			JP 3727938 B2	21-12-2005
			JP 2004147318 A	20-05-2004
US 2003104788	A1	05-06-2003	NONE	